Claims

What is claimed:

1.   A method for printing, comprising:

receiving a print job; and

performing the print job, wherein performing the print job includes printing non-uniform resolutions per raster in a contiguous block of rasters.

2.   The method of claim 1, wherein printing non-uniform resolutions per raster includes:

printing a first pass of a first raster in the contiguous block of rasters at a first horizontal resolution;

printing a second pass of the first raster in the contiguous block of rasters at a second horizontal resolution; and

printing a first pass of a second raster in the contiguous block of rasters at the first horizontal resolution.

3.   The method of claim 1, wherein printing non-uniform resolutions per raster in a contiguous block of rasters includes printing all rasters in the contiguous block of rasters during a first time period which is less than a second time period which would be used to print all rasters in the contiguous block at the same horizontal resolution setting.

4.   The method of claim 1, wherein printing non-uniform resolutions per raster in a contiguous vertical block of rasters includes printing a non-integral average number of drops per pixel in the contiguous block of rasters.

5.   A method for non-uniform resolution printing, comprising:

interpreting a print job instruction set; and

modifying the print job instruction set to print non-uniform resolutions per raster within a contiguous block of rasters.

6.   The method of claim 5, wherein modifying the print job instruction set to print non-uniform resolutions per raster includes printing a first raster in a first pass at a first horizontal resolution and printing a second raster in a second pass at a second horizontal resolution.

7.   The method of claim 6, wherein modifying the print job instruction set to print non-uniform resolutions per raster further includes printing a third raster in a third pass at a third horizontal resolution and printing a fourth raster in a fourth pass at a fourth horizontal resolution.

8.   The method of claim 7, wherein printing a third raster in the third pass at a third horizontal resolution and printing a fourth raster in the fourth pass at a fourth horizontal resolution includes printing with the third and the fourth horizontal resolutions which are different from the first and the second horizontal resolutions.

9.   A computer readable medium having a set of executable instructions for causing a device to perform a method, comprising:
        interpreting the type of information contained in a print job for a region of media; and
        adjusting the print job to facilitate printing a number of rasters in a contiguous block of rasters in less time than for printing the number of rasters using a single resolution for each raster pass.

10.   The medium of claim 9, wherein interpreting the type of information contained in a print job for a region of media includes interpreting resolution data and print mode settings.

11.   The medium of claim 9, wherein adjusting the print job to facilitate printing a number of rasters includes printing a first raster at a first horizontal resolution and printing a second raster at a second horizontal resolution.

20

12.   The medium of claim 9, wherein adjusting the print job to facilitate printing a number of rasters includes printing at least two complete raster passes at different resolutions.

13.   An apparatus, comprising:
    a controller;
    a printhead coupled to the controller; and
    a printhead driver operable to interface the instructions from the controller to the printhead, wherein the instructions include instructions to cause the printhead to print at non-uniform resolutions per raster in a contiguous block of rasters.

14.   The apparatus of claim 13, wherein the instructions include instructions to print at least two full passes in a single raster at different resolutions.

15.   The apparatus of claim 13, wherein the instructions include instructions to print a first raster at a first horizontal resolution and to print a second raster at a second horizontal resolution.

16.   The apparatus of claim 13, wherein the instructions include instructions to print a non-integral average number of drops per pixel in the contiguous block of rasters.

17.   A printing device, comprising:
    a printhead; and
    means for controlling the printhead to print non-uniform resolutions per raster in a contiguous block of rasters such that the printhead prints two complete raster passes at different horizontal resolutions.

18.   The device of claim 17, wherein the means includes a controller interfaced with printhead driver electronics to control the printhead.

19.   The device of claim 17, wherein the means includes a set of computer executable instructions operable to cause the device to print a first raster at a first horizontal resolution and to print a second raster at a second horizontal resolution.

20.   The device of claim 17, wherein the means includes a set of computer executable instructions operable to cause the device to print at least two complete passes of a single raster at different resolutions.

21.   A printing device, comprising:
        a printhead driver;
        a carriage motor driver;
        a media motor driver;
        a processor;
        a printhead;
        wherein the printhead driver, the carriage motor driver, the media motor driver, the processor, and the printhead are coupled via interface electronics for moving the printhead and media, and for firing individual nozzles of the printhead; and
        wherein the printhead driver is operable to interface an instruction set from the processor to the printhead, wherein the instruction set includes instructions to cause the printhead to perform non-uniform resolutions per raster in a contiguous block of rasters.

22.   An imaging system, comprising:
        a remote device having an application operable to create a print job; and
        a printing device operable to receive the print job from the remote device, wherein the printing device include;
                a controller;
                a printhead coupled to the controller; and
                a printhead driver operable to interface an instruction set from the controller to the printhead, wherein the instructions include instructions to cause

the printhead to perform non-uniform resolutions per raster in a contiguous block of rasters.

23. The system of claim 22, wherein the instructions include instructions to cause the printhead to print a non-integral average number of drops per pixel in the contiguous block of rasters.